Jackson Bean

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EDUCATION

The Ohio State University	Expected Graduation: May 2026
Honors College of Engineering	Columbus, OH
B.S. Computer Science and Engineering & Mathematics	GPA: 4.00/4.00

QUALIFICATIONS

- **Programming Languages:** JavaScript, TypeScript, Java, C/C++, HTML/CSS, Ruby, Python, x86 Assembly
- **Frameworks & Libraries:** Express.js, Middleman, Ruby on Rails, React, Tailwind CSS
- **Developer Tools:** MongoDB, SQLite, Linux, UNIX, Microsoft Office, GDB, Makefile, Git, Vite, Valgrind, VS Code, Xcode, Chrome DevTools, Postman, APIs
- **CS Coursework:** Data Structures & Algorithms, Operating Systems, AI/ML, Databases, Networking
- **Math Coursework:** Calculus I-III, Linear Algebra, Abstract Algebra, Real Analysis, Differential Equations

WORK EXPERIENCE

The Ohio State University College of Arts and Sciences — August 2024 – Present
Student Instructional Associate — Columbus, OH

- Teach College Algebra twice a week to 72 students divided into two separate sections
- Answer at least 20 weekly questions about course material in a concise and understandable manner
- Prepare, grade, and proctor 10 weekly quizzes and four monthly exams over semester-long course content

The Ohio State University College of Industrial & Systems Engineering — May 2024 – September 2024
Summer Research Intern — Columbus, OH

- Worked with the Cognitive Systems Engineering Lab (CSEL) to develop two new contingency plans for UAMs
- Developed C++ code to run more than 40 simulations that enacted parameter-determined flight pathing
- Plotted results of simulations on six dynamic charts and graphs using Python with Pyplot Dash

The Ohio State University Department of Biomedical Informatics — May 2023 – August 2023
Summer Research Intern — Columbus, OH

- Developed machine learning code in Python to read over one million instances of patient data
- Constructed an AI model which could classify patient outcomes with more than 80% accuracy
- Interpreted classification results using R and presented findings at a departmental poster session

PROJECTS

Personal Portfolio Website — June 2025

- Developed a dynamic personal portfolio website using React, TypeScript, and Tailwind CSS
- Implemented reusable stateful components to organize content for a cohesive user experience

Full-Stack Employee Database Web Application — March 2025

- Built a RESTful API backend using TypeScript, Express, and MongoDB to manage employee information
- Applied CRUD functionality to the backend through custom GET, POST, and DELETE routes
- Programmed a frontend with React and TypeScript to query the API and display the results of GET requests

HONORS AND ACTIVITIES

- Morrill Excellence Scholarship recipient
- Experienced in building high-performance desktop computers optimized for programming and gaming